	E	xploring the Ex	treme
		2008 Scienc	
	Next Genera		State Standards
Florida Science			
Grade K			
Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers		SCI.K.SC.K.N.	Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation.
Finding the Center of Gravity Using Rulers		SCI.K.SC.K.N.	Collaborate with a partner to collect information.
	_		
	E	xploring the Ex	
	Name of the same o	2008 Scienc	
Flavida Caianaa	Next Genera	ation Sunshine	State Standards
Florida Science			
Grade 1 Activity/Lesson	State	Standards	
Finding the Center of Gravity Using Rulers		SCI.1.SC.1.N.1 .A	Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation. Raise questions about the natural world,
Finding the Center of Gravity Using Rulers		SCI.1.SC.1.N.1	investigate them in teams through free exploration, and generate appropriate explanations based on those explorations.
	E	xploring the Ex	treme
		2008 Scienc	
	Next Genera	tion Sunshine	State Standards
Florida Science			
Grade 2			
Activity/Lesson	State	Standards	Scientific inquiry is a multifaceted activity;
Finding the Center of Gravity Using Rulers		SCI.2.SC.2.N.1	The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those

	I	I	Daisa guartiana abaut tha natural would
			Raise questions about the natural world,
			investigate them in teams through free
		0010000114	exploration and systematic observations, and
Finding the Center of			generate appropriate explanations based on
Gravity Using Rulers	FL	.1	those explorations.
			Ask "how do you know?" in appropriate
Finding the Center of			situations and attempt reasonable answers
Gravity Using Rulers	FL	.3	when asked the same question by others.
	_		
	L	xploring the Ex	
	Novt Conore	2008 Science	e State Standards
Florida Science	Next Genera	tion Sunsnine	State Standards
Grade 3			
Activity/Lesson	State	Standards	
ACTIVITY/LESSOII	State	Stariuarus	Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
Finding the Center of		SCI.3.SC.3.N.1	data, and the communication of this
_		.A	evaluation.
Gravity Osing Rulers	r L	.A	Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
Finding the Center of		SCI 3 SC 3 N 1	role in the generation and validation of
Gravity Using Rulers		.C	scientific knowledge.
Clavity Osing Naicis	L	.0	Raise questions about the natural world,
			investigate them individually and in teams
			through free exploration and systematic
Finding the Center of		SCI 3 SC 3 N 1	investigations, and generate appropriate
Gravity Using Rulers		.1	explanations based on those explorations.
Cravity Comig Traioro			Recognize that scientists question, discuss,
Finding the Center of		SCI.3.SC.3.N.1	and check each others' evidence and
Gravity Using Rulers		.5	explanations.
Gravity Comig Haloro			Scientific knowledge is based on observation
			and inference; it is important to recognize
			that these are very different things. Not only
			does science require creativity in its methods
			and processes, but also in its questions and
Finding the Center of		SCI.3.SC.3.N.1	explanations. Students will infer based on
Gravity Using Rulers		.6	observation.
Gravity Comig Haioro			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
Finding the Center of			data, the evaluation of the meaning of those
Gravity Using Plumb		SCI.3.SC.3.N.1	
Lines	FL	_	evaluation.
LIIICO	I L	.A	EvaluatiUII.

	I	ľ	
			Scientific knowledge is based on observation
			and inference; it is important to recognize
			that these are very different things. Not only
Finding the Center of			does science require creativity in its methods
Gravity Using Plumb		SCI.3.SC.3.N.1	and processes, but also in its questions and
Lines	FL	.D	explanations.
			Raise questions about the natural world,
			investigate them individually and in teams
Finding the Center of			through free exploration and systematic
Gravity Using Plumb		SCI.3.SC.3.N.1	investigations, and generate appropriate
Lines	FL	.1	explanations based on those explorations.
Finding the Center of			Recognize that scientists question, discuss,
Gravity Using Plumb		SCI.3.SC.3.N.1	and check each others' evidence and
Lines	FL	.5	explanations.
			Recognize that all models are
Finding the Center of			approximations of natural phenomena; as
Gravity Using Plumb		SCI.3.SC.3.N.3	such, they do not perfectly account for all
Lines	FL	.3	observations.
			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
Changing the Center			data, the evaluation of the meaning of those
of Gravity Using		SCI.3.SC.3.N.1	data, and the communication of this
Moment Arms	FL	.A	evaluation.
			Scientific argumentation is a necessary part
Changing the Center			of scientific inquiry and plays an important
of Gravity Using		SCI.3.SC.3.N.1	role in the generation and validation of
Moment Arms	FL	.C	scientific knowledge.
			Raise questions about the natural world,
			investigate them individually and in teams
Changing the Center			through free exploration and systematic
of Gravity Using		SCI.3.SC.3.N.1	investigations, and generate appropriate
Moment Arms	FL	.1	explanations based on those explorations.
Changing the Center			Recognize that scientists question, discuss,
of Gravity Using		SCI.3.SC.3.N.1	and check each others' evidence and
Moment Arms	FL	.5	explanations.
			Scientific knowledge is based on observation
			and inference; it is important to recognize
			that these are very different things. Not only
			does science require creativity in its methods
Changing the Center			and processes, but also in its questions and
of Gravity Using		SCI.3.SC.3.N.1	explanations. Students will infer based on
Moment Arms	FL	.6	observation.
Changing the Center			
of Gravity Using		SCI,3.SC.3.N 3	Recognize that scientists use models to help
Moment Arms	FL	.2	understand and explain how things work.
	· -	-	Recognize that all models are
Changing the Center			approximations of natural phenomena; as
of Gravity Using		SCI 3 SC 3 N 3	such, they do not perfectly account for all
Moment Arms	FL	.3	observations.
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2008 Science				
Next Generation Sunshine State Standards				
Florida Science				
Grade 4				
Activity/Lesson	State	Standards		
Finding the Center of Gravity Using Rulers	FL	SCI.4.SC.4.N.1	Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation.	
Finding the Center of		SCI.4.SC.4.N.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate	
Gravity Using Rulers	FL	.1	explanations based on those explorations.	
Finding the Center of Gravity Using Plumb Lines	FL	SCI.4.SC.4.N.1 .A	Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation.	
Finding the Center of Gravity Using Plumb Lines	FL	SCI.4.SC.4.N.1	Raise questions about the natural world, use appropriate reference materials that support understanding to obtain information (identifying the source), conduct both individual and team investigations through free exploration and systematic investigations, and generate appropriate explanations based on those explorations. Scientific inquiry is a multifaceted activity; The processes of science include the formulation of scientifically investigable questions, construction of investigations into	
Changing the Center of Gravity Using Moment Arms	FL	SCI.4.SC.4.N.1 .A	those questions, the collection of appropriate data, the evaluation of the meaning of those data, and the communication of this evaluation.	

			Cojentific knowledge is beard on observation
			Scientific knowledge is based on observation
			and inference; it is important to recognize
			that these are very different things. Not only
Changing the Center			does science require creativity in its methods
of Gravity Using		SCI.4.SC.4.N.1	and processes, but also in its questions and
Moment Arms	FL	.D	explanations.
Changing the Center			
of Gravity Using		SCI.4.SC.4.N.1	Compare the methods and results of
Moment Arms	FL	.5	investigations done by other classmates.
			Keep records that describe observations
Changing the Center			made, carefully distinguishing actual
of Gravity Using		SCI 4 SC 4 N 1	observations from ideas and inferences
Moment Arms	FL	.6	about the observations.
Women Amis	L	.0	about the observations.
	E-	valoring the Ev	from
	<u> </u>	xploring the Ex 2008 Scienc	
	Novt Conord		e State Standards
Flanisla Caianaa	Next Genera	tion Sunsnine	State Standards
Florida Science			
Grade 5	0	0	
Activity/Lesson	State	Standards	
			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
		SCI.5.SC.5.N.1	data, and the communication of this
Jet Propulsion	FL	.A	evaluation.
			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI.5.SC.5.N.1	role in the generation and validation of
Jet Propulsion	FL	.C	scientific knowledge.
oct repaidon			Coloniano Informoago:
			Define a problem, use appropriate reference
			materials to support scientific understanding,
			plan and carry out scientific investigations of
			various types such as: systematic
			1
			observations, experiments requiring the
			identification of variables, collecting and
			organizing data, interpreting data in charts,
		SCI.5.SC.5.N.1	tables, and graphics, analyze information,
Jet Propulsion	FL	.1	make predictions, and defend conclusions.
			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
		SCI 5 SC 5 N 1	data, and the communication of this
Vectoring	FL	.A	evaluation.
vectoring	· ·	.^	evaluation.

			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI 5 SC 5 N 1	role in the generation and validation of
Vectoring	FL	.C	scientific knowledge.
Vectoring		.0	Scientific knowledge.
		Exploring the Ex	treme
		2008 Scienc	
	Next	Generation Sunshine	
Florida Science			
Grade 6			
Activity/Lesson	State	Standards	
-			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
		SCI.6.SC.6.N.1	data, and the communication of this
Jet Propulsion	FL	.A	evaluation.
			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
			role in the generation and validation of
Jet Propulsion	FL	.C	scientific knowledge.
			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
		CCI C CC C N 4	data, the evaluation of the meaning of those
\/ootoring	FL		data, and the communication of this
Vectoring	FL	.A	evaluation. Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI 6 SC 6 N 1	role in the generation and validation of
Vectoring	FL	.C	scientific knowledge.
Vectoring		.0	Scientific knowledge.
		Exploring the Ex	treme
		2008 Scienc	
	Next	Generation Sunshine	
Florida Science			
Grade 7			
Activity/Lesson	State	Standards	
,			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
		SCI.7.SC.7.N.1	data, and the communication of this
Jet Propulsion	FL	.A	evaluation.

			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI 7 SC 7 N 1	role in the generation and validation of
Jet Propulsion	FL	.C	scientific knowledge.
oct i ropuision	1 -		The scientific theory of evolution is supported
Jet Propulsion	FL	5.B	by multiple forms of evidence.
oct i Topulsion	-	J.D	Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
		0017007114	data, the evaluation of the meaning of those
., .			data, and the communication of this
Vectoring	FL	.A	evaluation.
			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
			role in the generation and validation of
Vectoring	FL	.C	scientific knowledge.
Center of Gravity,			Identify the benefits and limitations of the use
Pitch, Yaw	FL	.2	of scientific models.
		SCI.7.SC.7.N.3	Identify the benefits and limitations of the use
Fuel Efficiency	FL	.2	of scientific models.
		Exploring the Ex	
	Newt Co.	2008 Science	
Florida Science	Next Ge	neration Sunshine	State Standards
Grade 8			
Activity/Lesson	State	Standards	
7.0 			Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
			data, the evaluation of the meaning of those
		SCI 8 SC 8 N 1	data, and the communication of this
Jet Propulsion	FL	.A	evaluation.
oct i ropuision	1 -	.A	Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI.8.SC.8.N.1	role in the generation and validation of
let Propulsion	FL	.C	scientific knowledge.
Jet Propulsion	FL	.0	Scientific knowledge. Scientific inquiry is a multifaceted activity;
			The processes of science include the
			formulation of scientifically investigable
			questions, construction of investigations into
			those questions, the collection of appropriate
		0010000111	data, the evaluation of the meaning of those
Vectoring	FL	SCI.8.SC.8.N.1	data, the evaluation of the meaning of those data, and the communication of this evaluation.

			Scientific argumentation is a necessary part
			of scientific inquiry and plays an important
		SCI.8.SC.8.N.1	role in the generation and validation of
Vectoring	FL	.C	scientific knowledge.
Center of Gravity,		SCI.8.SC.8.N.3	Select models useful in relating the results of
Pitch, Yaw	FL	.1	their own investigations.
			Scientific knowledge is based on observation
			and inference; it is important to recognize
			that these are very different things. Not only
			does science require creativity in its methods
		SCI.8.SC.8.N.1	and processes, but also in its questions and
Fuel Efficiency	FL	.D	explanations.
			Understand that scientific investigations
			involve the collection of relevant empirical
			evidence, the use of logical reasoning, and
			the application of imagination in devising
			hypotheses, predictions, explanations and
		SCI.8.SC.8.N.1	models to make sense of the collected
Fuel Efficiency	FL	.6	evidence.